

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1-46. Canceled.

47. (Currently Amended) A code division multiple access subscriber unit, comprising:

a circuit configured to output traffic data, ~~wherein a rate at which the traffic data is output from the circuit is at~~ one of a plurality of rates selected by the circuit, the traffic data being spread coded and carried by a first traffic channel, the circuit being further configured to ~~generate a second channel, the second channel being a pilot channel, which does not carry the traffic data, the second channel carrying~~ output information adapted to facilitate processing of radio frequency signals by a base station, the information being carried by a pilot channel, which does not carry the traffic data; and

an antenna coupled to the circuit, the antenna being configured to ~~output a signal carrying~~ transmit a radio frequency carrier, which carries the first traffic and second pilot channels.

48. (Currently Amended) A code division multiple access subscriber unit of claim 47, wherein the traffic channel is a first channel and the pilot channel is a second channel, the circuit is configured to output a third channel carrying control information ~~and the antenna being configured to output the signal carrying such~~

that the radio frequency carrier also carries the first, second and third channels channel.

49. (Currently Amended) A code division multiple access subscriber unit of claim 48, further comprising a power control circuit, the power control circuit configured to receive a stream of power commands and adjusting adjust a gain of associated with at least one of the first, second and third channels the outputted signal in response to the received stream of power commands.

50. (Currently Amended) A code division multiple access subscriber unit of claim [[49]] 48, further comprising a power control circuit, the power control circuit configured to receive a stream of power commands, wherein a gain of each of the first, second and third channels is individually controlled and a transmission gain of the first, second and third channels are adjusted together in response to each of the received power command commands.

51. (Currently Amended) A code division multiple access subscriber unit of claim 50, wherein the gain of each of the first, second and third channels are a first gain is associated with the first channel, a second gain is associated with the second channel, and a third gain is associated with the third channel, the first, second, and third gains being fixed in proportion to each other.

52. (Previously Presented) A code division multiple access subscriber unit of claim 47, wherein the circuit is further configured to output a power control bit, the power control bit being based on a power level of at least an input channel supplied to the antenna and an interference level associated with the input channel.

53. (Previously Presented) A code division multiple access subscriber unit of claim 52, wherein the power control bit is one of a plurality of power control bits, the plurality of power control bits are not error protected.

54. (Previously Presented) A code division multiple access subscriber unit of claim 47, wherein the traffic data is traffic data associated with a service.

55. (Currently Amended) A communication method, comprising:
producing traffic data;
selecting a data rate associated with the traffic data from among a plurality of data rates;
spread coding the traffic data;
supplying the spread coded data to a first channel;
generating a second channel, the second channel being a pilot channel, which does not carry the traffic data, the second channel including information which is adapted to facilitate processing of radio frequency signals by a base station;
outputting a signal carrying a radio frequency carrier with an user antenna of a code divisions multiple access subscriber unit, the radio frequency carrier carrying the first and second channel with a user antenna of a code divisions multiple access subscriber unit channels.

56. (Previously Presented) A communication method in accordance with claim 55, further including spread coding the second channel.

57. (Previously Presented) A communication method in accordance with claim 55, further including:

determining a power control bit based on a power level of at least an input channel supplied to the antenna and an interference level associated with the input channel; and

outputting the power control bit.

58. (Previously Presented) A communication method in accordance with claim 57, wherein the power control bit is one of a plurality of power control bits, the plurality of power control bits are not error protected.

59. (Previously Presented) A communication method in accordance with claim 57, wherein the power control bit is one of a plurality of power control bits, the plurality of power control bits are not subject to forward error correction encoding.

60. (Currently Amended) A communication method in accordance with claim 57, wherein the power control bit is further based on a ratio of said at least the input channel carried by the first signal and the interference level associated with the input channel.

61. (Currently Amended) A communication method in accordance with claim 55, comprising ~~generating~~ establishing a third channel carrying control information, wherein the ~~antenna outputting the signal carrying the first, second and third channels~~ radio frequency carrier further carries the third channel.

62. (Currently Amended) A communication method in accordance with claim 61, further comprising receiving a stream of power commands and adjusting a gain of the outputted signal of at least one of the first, second and third channels in response to the received stream of power commands.

63. (Currently Amended) A communication method in accordance with claim 62, ~~wherein~~ further comprising individually controlling a gain of each of the first, second and third channels is individually controlled and adjusting a transmission gain of the first, second and third channels are adjusted together in response to each received power command of the power commands.

64. (Currently Amended) A communication method in accordance with claim 63, ~~wherein~~ first, second and third gains are associated with the gain of each of the first, second and third channels, respectively, the first, second and third gains are fixed in proportion to each other.

65. (Previously Presented) A communication method in accordance with claim 55, wherein the traffic data is traffic data associated with a service.

66. (New) A communication method, comprising:
receiving first data and second data;
spread coding the first and second data;
supplying the spread coded first and second data to first and second channels, respectively;
establishing a third channel, the third channel being a control channel, which does not carry the first and second data, information carried by the second channel

being adapted to facilitate processing of radio frequency signals by a base station;
and

outputting a radio frequency carrier, which carries the first, second and third channels, with a user antenna of a code division multiple access subscriber unit, a data rate associated with the first data carried by the first channel being different than a data rate associated with the second data carried by the second channel.

67. (New) A communication method in accordance with claim 66, further including spread coding the third channel.

68. (New) A communication method in accordance with claim 66, further including:

determining a power control bit based on a power level of at least an input channel supplied to the antenna and an interference level associated with the input channel; and

outputting the power control bit.

69. (New) A communication method in accordance with claim 68, wherein the power control bit is one of a plurality of power control bits, the plurality of power control bits are not error protected.

70. (New) A communication method in accordance with claim 68, wherein the power control bit is one of a plurality of power control bits, the plurality of power control bits are not subject to forward error correction encoding.

71. (New) A communication method in accordance with claim 68, wherein

the power control bit is further based on a ratio of said at least the input channel carried by the first signal and the interference level associated with the input channel.

72. (New) A communication method in accordance with claim 66, wherein the receiving the first and second data includes receiving the first data through a first interface of the code division multiple access subscriber unit and receiving the second data through a second interface of the code division multiple access subscriber unit.

73. (New) A code division multiple access subscriber unit, comprising:
a circuit configured to supply data, the data being based on input data provided to the code division multiple access subscriber unit, wherein a rate at which the data is output from the circuit is one of a plurality of rates, the data being spread coded and carried by a first channel, the circuit being further configured to output information adapted to facilitate processing of radio frequency signals by a base station, the information being carried by a second channel, which does not carry the data, the second channel being a pilot channel; and

an antenna coupled to the circuit, the antenna being configured to transmit a radio frequency carrier, which carries the first and second channels.

74. (New) A code division multiple access subscriber unit in accordance with claim 73, wherein the circuit is further configured to output a power control bit, the power control bit being based on a power level of at least an input channel supplied to the antenna and an interference level associated with the input channel.

75. (New) A code division multiple access subscriber unit in accordance with claim 74, wherein the power control bit is one of a plurality of power control bits, the plurality of power control bits are not error protected.

76. (New) A code division multiple access subscriber unit in accordance with claim 74, wherein the power control bit is one of a plurality of power control bits, the plurality of power control bits are not subject to forward error correction encoding.

77. (New) A code division multiple access subscriber unit in accordance with claim 74, wherein the power control bit is further based on a ratio of said at least the input channel carried by the first signal and the interference level associated with the input channel.

78. (New) A code division multiple access subscriber unit in accordance with claim 1, wherein the second channel is spread coded.

79. (New) A communication method, comprising:
receiving an input;
generating data based on the input;
spread coding the data;
supplying the spread coded data to a first channel;
establishing a second channel, the second channel being a pilot channel, which does not carry the data, the second channel including information which is adapted to facilitate processing of radio frequency signals by a base station;
transmitting a radio frequency carrier with a user antenna of a code division

multiple access subscriber unit, the radio frequency carrier carries the first and second channels, a data rate associated with the first channel being one of a plurality of data rates.

80. (New) A communication method in accordance with claim 79, further including spread coding the second channel.

81. (New) A communication method in accordance with claim 79, further including:

determining a power control bit based on a power level of at least an input channel supplied to the antenna and an interference level associated with the input channel; and

outputting the power control bit.

82. (New) A communication method in accordance with claim 81, wherein the power control bit is one of a plurality of power control bits, the plurality of power control bits are not error protected.

83. (New) A communication method in accordance with claim 81, wherein the power control bit is one of a plurality of power control bits, the plurality of power control bits are not subject to forward error correction encoding.

84. (New) A communication method in accordance with claim 81, wherein the power control bit is further based on a ratio of said at least the input channel carried by the first signal and the interference level associated with the input channel.

85. (New) A code division multiple access (CDMA) subscriber unit, comprising:

an antenna; and

a circuit coupled to the antenna, wherein, in an absence of communications from a base station, the circuit is configured to be operable in a first mode to establish a first code-spread pilot channel, such that the antenna outputs a radio frequency carrier, which carries the first code-spread pilot channel, and

wherein, the circuit is further configured to receive an acknowledgement output from the base station in response to the radio frequency carrier, such that, after the acknowledgement is received, the circuit is configured to be operable in a second mode to establish a second code-spread pilot channel, the circuit receiving signals output by the base station during the second mode.

86. (New) A CDMA subscriber unit in accordance with claim 85, wherein the circuit is further configured to output a traffic channel during the second mode, such that the second radio frequency signal carries the traffic channel.

87. (New) A CDMA subscriber unit in accordance with claim 85, wherein a power level associated with the second pilot channel is adjusted in response to a control signal output by the base station.

88. (New) A communication method for use with a code division multiple access (CDMA) subscriber unit, the CDMA subscriber unit including an antenna, the method comprising:

outputting, with the antenna, a first radio frequency carrier, which carries a

first code-spread pilot channel, the first radio frequency carrier being output to a base station during a first mode of operation of the CDMA subscriber unit in which the CDMA subscriber unit does not receive communications from the base station;

receiving, with the antenna, an acknowledgement signal, the acknowledgement signal being transmitted by the base station in response to the first code-spread pilot channel; and

outputting, with the antenna, a second code-spread pilot channel during a second mode of operation of the CDMA subscriber unit, wherein, during the second mode of operation of the CDMA subscriber unit, the CDMA subscriber unit receives signals from the base station, the second mode of operation of the CDMA subscriber unit occurring after the acknowledgement signal has been received by the CDMA subscriber unit.

89. (New) A communication method in accordance with claim 88, further comprising generating a traffic channel during the second mode of operation of the CDMA subscriber unit, the second radio frequency signal carrying the traffic channel.

90. (New) A communication method in accordance with claim 88, further comprising adjusting a power level associated with the second code-spread pilot channel in response to a control signal output by the base station.

91. (New) A code division multiple access subscriber unit, comprising:
a circuit configured to receive first and second data and to spread code the first and second data, the circuit further being configured to supply the first data and second data on first and second channels, respectively, the first channel

carrying the first data at a first data rate, and the second channel carrying the second data at a second data rate, the first and second data rates being different from one another,

wherein the circuit is also configured to establish a pilot channel, which does not carry the first and second data, the pilot channel including information which is adapted to facilitate processing of radio frequency signals by a base station; and

an antenna coupled to the circuit, the antenna outputting a radio frequency carrier, which carries the first and second channels.

92. (New) A code division multiple access subscriber unit in accordance with claim 91, wherein the pilot channel is spread coded.

93. (new) A code division multiple access subscriber unit in accordance with claim 91, wherein the circuit is further configured to output a power control bit, the power control bit being based on a power level of at least an input channel supplied to the antenna and an interference level associated with the input channel.

94. (New) A code division multiple access subscriber unit in accordance with claim 93, wherein the power control bit is one of a plurality of power control bits, the plurality of power control bits are not error protected.

95. (New) A code division multiple access subscriber unit in accordance with claim 93, wherein the power control bit is one of a plurality of power control bits, the plurality of power control bits are not subject to forward error correction encoding.

96. (New) A code division multiple access subscriber unit in accordance with claim 93, wherein the power control bit is further based on a ratio of said at least the input channel carried by the first signal and the interference level associated with the input channel.

97. (New) A code division multiple access subscriber unit in accordance with claim 91, wherein the subscriber unit further includes:

a first interface coupled to the circuit; and

a second interface coupled to the circuit, the first interface receiving the first data and the second interface receiving the second data, the first and second data including digital data.

98. (New) A code division multiple access subscriber unit in accordance with claim 47, wherein the subscriber unit further includes a first interface configured to receive first digital data and a second interface configured to receive second digital data, the circuit being configured to generate the traffic data in response to at least one of the first and second digital data.

99. (New) A code division multiple access subscriber unit in accordance with claim 98, wherein said first digital data is supplied to the first interface as a plurality of frames.

100. (New) A communication method in accordance with claim 55, wherein the subscriber unit includes first and second interfaces, the method further comprising receiving digital data via at least one of the first and second interfaces, the traffic data being produced in response to the digital data.

101. (New) A communication method in accordance with claim 102, wherein the digital data is received as a plurality of frames.

102. (New) A communication method in accordance with claim 66, wherein the subscriber unit further includes first and second interfaces, said receiving includes receiving the first and second data through the first and second interfaces, respectively.

103. (New) A communication method in accordance with claim 102, wherein the first data includes a plurality of frames.

104. (New) A code division multiple access subscriber unit in accordance with claim 73, wherein the subscriber unit further includes a first interface and a second interface, the input data being provided to the code division multiple access subscriber unit through at least one of the first and second interfaces, the input data including digital data.

105. (New) A code division multiple access subscriber unit in accordance with claim 104, wherein said input data is provided as a plurality of frames.

106. (New) A communication method in accordance with claim 79, wherein the subscriber unit further includes a first interface and a second interface, said receiving includes receiving the input through at least one of the first and second interfaces, the input including digital data.

107. (New) A code division multiple access subscriber unit in accordance with claim 106, wherein said input includes a plurality of frames.

108. (New) A CDMA subscriber unit in accordance with claim 85, wherein the CDMA subscriber unit includes first and second interfaces, the first and second interfaces being configured to receive first and second digital data, respectively, the circuit receiving at least one of the first and second digital data and the circuit being further configured to output a channel carrying output data, the output data being generated by the circuit in response to at least one of the first and second digital data.

109. (New) A CDMA subscriber unit in accordance with claim 108, wherein said at least one of the first and second digital data is supplied to the CDMA subscriber unit as a plurality of frames.

110. (New) A code division multiple access subscriber unit in accordance with claim 91, wherein the first and second data includes digital data, the code division multiple access subscriber unit includes first and second interfaces, the first and second data being supplied to the subscriber unit through said first and second interfaces, respectively.

111. (New) A code division multiple access subscriber unit in accordance with claim 110, wherein the first data includes a plurality of frames.

112. (New) A code division multiple access subscriber unit, comprising:
a circuit configured to receive first and second data and to spread code the

first and second data, the circuit further being configured to output the first data and the second data on first and second channels, respectively, the first channel carrying the first data at a first data rate, and the second channel carrying the second data at a second data rate, the first and second data rates being different from one another,

wherein the circuit is also configured to establish a third channel, which does not carry the first and second data, the third channel carrying information which is adapted to facilitate processing of radio frequency signals by a base station; and

an antenna coupled to the circuit, the antenna outputting a radio frequency carrier, which carries the first, second channels, and third channels.

113. (New) A code division multiple access subscriber unit in accordance with claim 112, wherein the third channel is spread coded.

114. (New) A code division multiple access subscriber unit in accordance with claim 112, wherein the circuit is further configured to output a power control bit, the power control bit being based on a power level of at least an input channel supplied to the antenna and an interference level associated with the input channel.

115. (New) A code division multiple access subscriber unit in accordance with claim 114, wherein the power control bit is one of a plurality of power control bits, the plurality of power control bits are not error protected.

116. (New) A code division multiple access subscriber unit in accordance with claim 114, wherein the power control bit is one of a plurality of power control bits, the plurality of power control bits are not subject to forward error correction

encoding.

117. (New) A code division multiple access subscriber unit in accordance with claim 114, wherein the power control bit is further based on a ratio of said power level of said at least the input channel carried and the interference level associated with the input channel.

118. (New) A code division multiple access subscriber unit in accordance with claim 112, wherein the subscriber unit further includes:

a first interface coupled to the circuit; and

a second interface coupled to the circuit, the first interface receiving the first data and the second interface receiving the second data, the first and second data including first and second digital data, respectively.

119. (New) A code division multiple access subscriber unit in accordance with claim 118, wherein the first digital data includes a plurality of frames.

120. (New) A code division multiple access subscriber unit in accordance with claim 47, further comprising: a controller circuit; an encoder circuit; a decoder circuit; a modulator circuit; a demodulator circuit; and a memory circuit.

121. (New) A code division multiple access subscriber unit in accordance with claim 73, further comprising: a controller circuit; an encoder circuit; a decoder circuit; a modulator circuit; a demodulator circuit; and a memory circuit.

122. (New) A code division multiple access subscriber unit in accordance

with claim 85, further comprising: a controller circuit; an encoder circuit; a decoder circuit; a modulator circuit; a demodulator circuit; and a memory circuit.

123. (New) A code division multiple access subscriber unit in accordance with claim 91, further comprising: a controller circuit; an encoder circuit; a decoder circuit; a modulator circuit; a demodulator circuit; and a memory circuit.

124. (New) A code division multiple access subscriber unit in accordance with claim 112, further comprising: a controller circuit; an encoder circuit; a decoder circuit; a modulator circuit; a demodulator circuit; and a memory circuit.

125. (New) A method in accordance with claim 55, wherein the code division multiple access subscriber unit further comprises: a controller circuit; an encoder circuit; a decoder circuit; a modulator circuit; a demodulator circuit; and a memory circuit.

126. (New) A method in accordance with claim 66, wherein the code division multiple access subscriber unit further comprises: a controller circuit; an encoder circuit; a decoder circuit; a modulator circuit; a demodulator circuit; and a memory circuit.

127. (New) A method in accordance with claim 79, wherein the code division multiple access subscriber unit further comprises: a controller circuit; an encoder circuit; a decoder circuit; a modulator circuit; a demodulator circuit; and a memory circuit.

128. (New) A method in accordance with claim 88, wherein the code division multiple access subscriber unit further comprises: a controller circuit; an encoder circuit; a decoder circuit; a modulator circuit; a demodulator circuit; and a memory circuit.